

## ABSTRACT

A water-cooling heat dissipation system includes a heat sink mounted on a heat generating electronic device and a circulating loop connected to two ends of the heat sink. The circulating loop has a water pump attached at the inlet of the heat sink, a first cooling base attached at the outlet of the heat sink, and a  
5 second cooling base between the water pump and the heat sink. The second cooling base has a cryogenic chip to provide icy water to the heat sink, such that heat dissipation efficiency is greatly enhanced.